

ABSTRACT OF THE DISCLOSURE

An automatic circuit design apparatus includes a setting module configured to set an upper limit electric potential of a virtual ground line in a circuit to be designed, by use of a cell library for low-threshold cells, a cell library for high-threshold cells, and
5 information of the circuit to be designed. A layout generator is configured to generate a layout based on the information, the cell library for low-threshold cells, and the cell library for high-threshold cells.